

Organ Sites & Neoplasia Workflow Help

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Function

The Organ Sites & Neoplasia Workflow allows users to browse the number of test articles with a positive, clear or some evidence of carcinogenicity activity. Users can also search for test articles with user defined criteria for species, route of exposure, level of evidence of carcinogenic activity, lesion site or tumor type. Study metadata are provided to assist in interpretation or results.

This tutorial details how to use the Organ Sites & Neoplasia guided search to:

- Browse the number of test articles which produce positive, clear or some evidence of carcinogenic activity in specific organs, species and sexes.
- Search for test articles with user defined levels of evidence for carcinogenic activity. User specifies search criteria: species, sex, route, level of evidence, organ, or tumor type(s)

Review the NTP's [Definition of Carcinogenicity Results](#) (level of evidence).

From the CEBS Homepage (<http://tools.niehs.nih.gov/cebs3/ui/>), select the 'Organ Sites & Neoplasia' icon under Workflows. The next screen will be the 'Organ Sites & Neoplasia Workflow' home page. From this page, Browse and Search tabs are available.

1) Browse

- The Browse tab is the Organ Sites & Neoplasia home page.
- The Browse tab opens to a list of organs with counts of test articles for each species and sex where positive, clear or some evidence of carcinogenicity activity was reported.
- To view neoplastic findings in a specific organ, double click on the organ name.
- The next screen shows a list of test articles and metadata for the selected organ.

Note: Columns can be rearranged in this view by selecting column (in header row) and dragging to the desired location or resized by dragging column edge left or right.

a) Browse Results (Restricted Columns)

Description of Columns in Browse Results Table:

Field	Description
Publication No.	NTP publication number
CASRN	Chemical Abstract Service Registry Number
Test Article Name	Name of test article administered to test subjects
Species	Species of test subject
Sex	Gender of test subject
Route	Route of test article administration
Organ	Organ name
Level of Evidence	NTP level of evidence call for the organ/tumor type (Definition of Carcinogenicity Results)
Tumor Type/Incidence	Tumor type and incidence per group for the specified finding
Finding Type	<p>Neoplastic Lesions: The test article is directly associated with positive, clear or some evidence of neoplasia for the species, sex, organ and tumor type selected</p> <p>May Have Been Related: The test article may have been associated with evidence of neoplasia in the species, sex, organ and tumor type selected producing an Equivocal level of evidence</p> <p>Blank (null): Negative evidence of neoplasia in the species, sex and organs selected</p>

b) Browse Results Options

From the browse results page, several options exist:

- **Define new search criteria:** Return to the previous page by selecting the green back arrow above the results table.

- **Download results:** Download and save data to desired location by selecting the download (floppy disk) button above the table.
Note: For download instructions, see [Additional Instructions](#) at the end of this tutorial.
- **View Matched or All Results in TR:** Choose to view matched or all results in the NTP Technical Report (TR) by selecting these options in the dropdown menu.
 - **Matched Results in TR:** This option only displays results that exactly match the search criteria.
Note: Criteria for your search are defined above the results under the green Organ Sites & Neoplasia header.
 - **All Results in TR:** All findings from each NTP Publication matching the search criteria will be displayed; not just the selected organ site.
Note: Whichever view (All or Matched Results in TR) is selected from the drop down when the download is initiated will appear in the download results (see [Additional Instructions](#)).
- **View abstract:** Highlight a single row containing the Publication of interest by clicking anywhere on that row. Select the abstract button above the table to navigate to the abstract for the NTP publication.

2) Search

- Navigate to the Search options from Browse by selecting the Search tab or from the results by selecting the back arrow and selecting the Search tab.
- The search feature allows the user to define the search criteria: species, sex, route, level of evidence, organ/site or tumor type of interest.
- This feature also allows additional columns to be added to the results table including study number, publication title, review date, testing status URL, and more.
- Select 'Search' once choices have been made to navigate to results, or 'Cancel' to navigate back to the CEBS homepage.

a) Select Data

Define the study parameters by selecting from the options provided:

- **Species:** Species of test subject (Rats, Mice, Hamsters, Fish)
- **Sex:** Gender of test subject (Male, Female)
- **Route:** Route of test article administration (e.g. Dosed-Feed, Gavage, Inhalation)
- **Level of Evidence:** NTP level of evidence calls ([Definition of Carcinogenicity Results](#))
 - Positive
 - Clear Evidence
 - Some Evidence

- Equivocal Evidence
- Inadequate Study
- Negative/No Evidence

Note: Selecting Inadequate Study or Negative/No Evidence will disable the ability to select organs and/or tumor types. This is because no organs or tumor types are related to these types of calls.

- **Search by Organ/Site or Tumor Type:** Organ or tumor type of interest
Note: Either Organ/Site(s) OR Tumor Type(s) can be selected, click on 'Organ/Site' or 'Tumor Type' to toggle between these lists.

Note: None of the fields are required to proceed to the results. To clear the chosen selections, click the 'Clear Selections' icon at the top of the page.

b) Configure Data Display Table- Available Data /Selected Data

Additional data columns can be displayed in the results table by selecting from the 'Available Data' list.

- Select 'Available Data' by clicking on the desired parameters and clicking the arrows to move the data.
- Selections will appear in the 'Selected Data' pane (Available categories are listed below) and are added to search results in the form of additional columns.
- Available Data:
 - **Description:** Known test article uses as defined by the NTP
 - **Exposure:** Dose administration description
 - **Lab:** Laboratory where the studies were performed
 - **Peer review date:** Date of peer review approval for the NTP publication
 - **Publication Title:** Title of the NTP publication
 - **Study No.:** Unique study identification number
 - **Test Article No.:** Unique NTP test article identification number
 - Testing Status URL: URL to the NTP Testing Status page for the test article or NTP project

Note: None of the fields are required to proceed to the results. To clear the chosen selections, click the 'Clear Selections' icon at the top of the page.

c) Single vs. Multiple Selections

Single or multiple selections can be made from all available option in the Search tab.

- For single selections, click on an individual value in the fields available.

- For multiple selections, press the Ctrl Key in Windows or Command Key on a Mac and click your choices, your selections are highlighted.

Note: To clear the chosen selections, click the 'Clear Selections' icon at the top of the page.

d) Search Results (Configure Data Display Table Options Included)

Once study parameters are chosen and the Search icon is selected, the next screen will show a test article list based on the selected study parameters.

Note: Columns can be rearranged in this view by selecting column (in header row) and dragging to the desired location or resized by dragging column edge left or right.

Description of Columns in Search Results Table:

Field	Description
Publication No.	NTP publication number
CASRN	Chemical Abstract Service Registry Number
Test Article Name	Name of test article administered to test subjects
Species	Species of test subject
Sex	Gender of test subject
Route	Route of test article administration
Organ	Organ name
Level of Evidence	NTP level of evidence call for the organ/tumor type (Definition of Carcinogenicity Results)
Tumor Type/Incidence	Tumor type and incidence per group for the specified finding
Finding Type	Neoplastic Lesions: The test article is directly associated with positive, clear or some evidence of neoplasia for the species, sex, organ and tumor type selected May Have Been Related: The test article may have been associated with evidence of neoplasia in the species, sex, organ and tumor type selected producing an Equivocal level of evidence Blank (null): Negative evidence of neoplasia in the species, sex and organs selected
Additional Available Data Columns (If Selected)	Description: Known test article uses as defined by the NTP Exposure: Dose administration description Lab: Laboratory where the studies were performed Peer review date: Date of peer review approval for the NTP publication Publication Title: Title of the NTP publication Study No.: Unique study identification number Test Article No.: Unique NTP test article identification number Testing Status URL: URL to the NTP Testing Status page for the test article or NTP project

3) Examples

Below are example searches that can be performed in the Organ Sites & Neoplasia Workflow. To see what types of questions can be answered using this workflow, follow along with the steps in these examples.

a) Browse Example

For this example, we are interested in browsing which technical reports had positive, clear or some evidence of findings in the testis and any other notable findings in those technical reports.

- 1) When opening the Organ Sites & Neoplasia Workflow, the Browse tab at the top should be selected. If it isn't, select the Browse tab.
- 2) Because we are looking for findings for the testis, scroll down to the Testis row. The number of findings for each sex of mice and rats. To open results for the testis, double click on the Testis row.
- 3) The results page will open. The results show the technical report, test article, species, sex, level of evidence, and other details for each finding. Your browse criteria (positive, clear or some evidence of findings for the testis) are listed at the top of the window. Initially in the dropdown options at the top, 'Matched Results in TR' should be selected.
- 4) Because we also want to browse any other findings for these technical reports, use the dropdown arrow to change 'Matched Results in TR' to 'All Results in TR'. The number of results will increase, and will initially be sorted by the TR number. To change your selections, use the back arrow at the top of the page.
- 5) To open the abstract for any of these TR's, select the row you are interested in and click the Abstract button at the top. You will be linked to the abstract page in a new tab.
- 6) To download the results on this page, select the Download Data (floppy disc) icon at the top of the page. For full download instructions, see [Additional Instructions](#).

b) Search Example

For this example, we will search for technical reports where studies in rats received a clear, positive, some or equivocal call on findings in the brain, and would like to include a link to the NTP testing status page in the results.

- 1) Once you open the workflow, select the Search tab at the top of the page.
- 2) First we will select the data we want displayed under the Select Data heading. First click on Rats under Species. We are interested in both sexes and all routes, so you do not need to select anything under Sex or Route.

- 3) We want clear, positive, some or equivocal evidence, so we will need to select multiple options under Level of Evidence. Hold down the Ctrl key (for PC) or Command key (for Mac) and click on 'Clear Evidence', 'Equivocal Evidence', 'Positive', and 'Some Evidence'. Your selections will be highlighted. To clear selections, click on the selection again, or use the Clear Selections button.
- 4) We are searching by Organ/Site, so ensure that option is selected over the next list. Click to select Brain.
- 5) Because we are interested in the testing status pages for these results, we will need to add that display option. Under Available Data in Configure Data Display Table, click to select Testing Status URL. Once your selection is highlighted, use the right arrows (>>) to add that selection to Selected Data.
- 6) To display your results click the Search button at the bottom of the page. The results page will display the your selected Testing Status URL, the technical report, test article, species, sex, level of evidence, and other details for each finding.
- 7) To download the results on this page, select the Download Data (floppy disc) icon at the top of the page. For full download instructions, see [Additional Instructions](#). Once you have opened your downloaded results, following the download instructions, you can copy or follow the Testing Status URL's.

4) Additional Instructions/Information

- 1) 'CEBS Home' icon returns the user back to the CEBS Home page
- 2) Downloading and displaying data in Excel
 - Select the Download Data Icon
 - The next screen displays available locations to save data
 - Once a location has been determined, select Save
 - To access the data, go the the location where the data was saved
 - You will notice that the data is saved in text format
 - Open in Notepad or your favorite text editor
 - Select all by choosing Ctrl + A (PC) or Command + A (Mac). This function will highlight the entire document.
 - Right click your mouse and select copy
 - Open Excel
 - Right click your mouse and select paste
 - Save as an Excel document
 - To add filtering options, navigate to the Data Tab in Excel and select Filter
- 3) Flash movie running flex code for CEBS indicates a software platform is being used to create graphics or texts for CEBS

- 4) CEBS data may be cited by navigating to the CEBS Support page, and selecting the [Citing CEBS](#) document under FAQs. Here, instructions can be found on citing NTP Data as well as non-NTP data in CEBS.